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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,462	01/27/2004	Wesley M. Norman	10031090-1	1175
7590 09/21/2005			EXAMINER	
AGILENT TECHNOLOGIES, INC.			THERKORN, ERNEST G	
Legal Department, DL429 Intellectual Property Administration			ART UNIT	PAPER NUMBER
P.O. Box 7599			1723	
Loveland, CO	80537-0599		DATE MAILED: 09/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/764,462	NORMAN, WESLEY M.	
Office Action Summary	Examiner	Art Unit	
	Ernest G. Therkorn	1723	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed on <u>24 A</u> This action is FINAL. 2b) This Since this application is in condition for alloward closed in accordance with the practice under B 	s action is non-final. Ince except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) 1-11 and 18-20 is/ar 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 12-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ accomplication may not request that any objection to the Replacement drawing sheet(s) including the correct	re withdrawn from consideration. or election requirement. er. cepted or b) □ objected to by the drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).	
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		

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Claims 12-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification does not appear to disclose how to lithograph a foam structure.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 12-17 are rejected under 35 U.S.C. 102(E) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Koehler (U.S. Patent No. 6,814,859). The claims are considered to read on Koehler (U.S. Patent No. 6,814,859). However, if a difference exists between the claims and Koehler (U.S. Patent No. 6,814,859), it would reside in optimizing the elements of Koehler (U.S. Patent No. 6,814,859). It would have been obvious to optimize the elements of Koehler (U.S. Patent No. 6,814,859) to enhance separation.

Claims 12-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koehler (U.S. Patent No. 6,814,859) in view of either Riedmann (U.S. Patent No. 3,840,343) or Schulze (U.S. Patent No. 3,988,225). At best, the claims differ from

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Koehler (U.S. Patent No. 6,814,859) in implying the frit has a foam structure. Riedmann (U.S. Patent No. 3,840,343) (column 2, lines 13-15) discloses that it is desirable to use a foam structure as a frit material. Schulze (U.S. Patent No. 3,988,225) (column 2, line 67-column 3, line 2) discloses that it is desirable to use foam as a frit material. It would have been obvious to use a foam structure as a frit material in Koehler (U.S. Patent No. 6,814,859) either because Riedmann (U.S. Patent No. 3,840,343) (column 2, lines 13-15) discloses that it is desirable to use a foam structure as a frit material or because Schulze (U.S. Patent No. 3,988,225) (column 2, line 67-column 3, line 2) discloses that it is desirable to use foam as a frit material.

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Claims 12-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Tu (U.S. Patent No. 5,938,923) or Dugan (U.S. Patent No. 5,540,849) in view of Ma (U.S. Patent No. 6,673,285). At best, the claims differ from either Tu (U.S. Patent No. 5,938,923) or Dugan (U.S. Patent No. 5,540,849) in implying use of a foam structure. Ma (U.S. Patent No. 6,673,285) (column 1, lines 11-15 and 19; column 14, lines 52-55 and 64-65; column 15, lines 2-3) discloses that his foam skeleton porous material is useful as filter material and has the advantage over lithography by not requiring sophisticated equipment, is easily automated for large scale production, and has a well controlled nature in architecture, inter-pore conductivity, physical and mechanical properties. It would have been obvious to use Ma (U.S. Patent No. 6,673,285)'s foam structure in either Tu (U.S. Patent No. 5,938,923) or Dugan (U.S. Patent No. 5,540,849) because Ma (U.S. Patent No. 6,673,285) (column 1, lines 11-15 and 19; column 14, lines 52-55 and 64-65; column 15, lines 2-3) discloses that his foam

skeleton porous material is useful as filter material and has the advantage over lithography by not requiring sophisticated equipment, is easily automated for large scale production, and has a well controlled nature in architecture, inter-pore conductivity, physical and mechanical properties.

The restriction and election of species have been reconsidered, deemed proper, and made final for the reasons of record.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ernest G. Therkorn Primary Examiner

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EGT September 15, 2005